AUDIT REPORT

Hostname: Dist_SW2 Config file name: $dist_sw2.txt$

Config hash: fd5924b00e844e9ad1c6bc6d08e4eeed6eac1da7

Vendor: OS: ios

Facility layer: collapsed_distribution_access

L3 protocols:

Enabled functions: ospf ipv4,hsrp,acl created

Date: 18/05/2020_09:49

SUCCESS STATISTICS

Weighted score 96 out of 100 coefficient:

Successful checks: 94.3% Unsuccessful checks: 5.7%

Total number of relevant 159

started checks:

Successful checks: 150 Unsuccessful 'Critical': Unsuccessful 'High': Unsuccessful 'Medium': 3 Unsuccessful 'Low': 1 Unsuccessful 'Notice':

Authentication, Authorization, Accounting

No.	Name	Severity	Skipped	Cannot determine search/fix		
1	AAA new model/ Enabled AAA	High	False	False	Successful 🗸	
_	t configuration setting found in: ew-model					
2	AAA server set	High	False	False	Successful 🗸	
radiu: addre	t configuration setting found in: s server RADIUS_SERVER ess ipv4 192.168.60.11 auth-port 1645 acct-port 16 adKey1	546				
3	AAA server group	High	False	False	Successful 🗸	
aaa g	t configuration setting found in: roup server radius RADIUS_SERVER r name RADIUS_SERVER					
4	AAA authentication login	High	False	False	Successful 🗸	
_	t configuration setting found in: uthentication login default group RADIUS_SERVER	local enable				
5	AAA authentication login fallback	High	False	False	Successful 🗸	
Right configuration setting found in: aaa authentication login default group RADIUS_SERVER local enable						

6	AAA authentication login only local disabled	High	False	False	Successful 🗸				
7	AAA authentication login none disabled	Critical	False	False	Successful 🗸				
8	AAA authentication "enable"	Medium	False	False	Successful 🗸				
	Right configuration setting found in: aaa authentication enable default group RADIUS_SERVER enable								
9	AAA authentication "enable" fallback	Medium	False	False	Successful 🗸				
	t configuration setting found in: outhentication enable default group RADIUS_SERVE	R enable							
10	AAA authentication "enable" only local disabled	Medium	False	False	Successful 🗸				
11	AAA authentication "enable" none disabled	High	False	False	Successful 🗸				
12	AAA authorization "exec"	High	False	False	Successful 🗸				
	t configuration setting found in: outhorization exec default group RADIUS_SERVER lo	ocal if-authen	ticated						
13	AAA authorization "exec" fallback	High	False	False	Successful 🗸				
	t configuration setting found in: outhorization exec default group RADIUS_SERVER k	ocal if-authen	ticated						
14	AAA authorization "exec" only local disabled	High	False	False	Successful 🗸				
15	AAA authorization "exec" none disabled	Critical	False	False	Successful 🗸				
16	AAA accounting "connection"	High	False	False	Successful 🗸				
	t configuration setting found in: accounting connection default start-stop group RAD	OIUS_SERVER							
17	AAA auccounting "connection" none disabled	High	False	False	Successful 🗸				
18	AAA accounting "exec"	High	False	False	Successful 🗸				
	t configuration setting found in: accounting exec default start-stop group RADIUS_S	ERVER							
19	AAA accounting "exec" none disabled	High	False	False	Successful 🗸				
20	AAA source interface	Medium	False	False	Successful 🗸				
	t configuration setting found in: lius source-interface Loopback0								
21	AAA authentication max attempts less or equal to 5	High	False	False	Successful 🗸				

Access to device

No.	Name	Severity	Skipped	Cannot determine search/fix	
1	Exec timeout <=5 minutes	Medium	False	False	Successful 🗸
line of	t configuration setting found in: con 0 -timeout 5 0 /ty 0 4 -timeout 5 0				
2	AUX connection input disabled	High	False	False	Successful 🗸
3	AUX no execution set	High	False	False	Successful 🗸
Righ line a					
4	Remote output connections disabled	Medium	False	False	Successful 🗸

line of trans line of trans line of	t configuration setting found in: con 0 port output none aux 0 port output none rty 0 4 port output none						
5	Local user database with encrypted password	Critical	False	False	Successful 🗸		
	t configuration setting found in: name admin secret 5 \$1\$6BjD\$5cLWLrlUJZMGqw1	y1JydU.					
6	Local user database with plaintext password disabled	Critical	False	False	Successful 🗸		
7	Enable password encrypted	Critical	False	False	Successful 🗸		
_	t configuration setting found in: le secret 5 \$1\$qn/1\$G9grcHRrg6n9mnqv.GyW.1						
8	Enable password plaintext disabled	Critical	False	False	Successful 🗸		
9	Local login to virtual terminal disabled	Critical	False	False	Successful 🗸		
10	Restrict login to device - IPv4 ACL	Critical	False	False	Successful 🗸		
line v	t configuration setting found in: vty 0 4 ss-class IPV4_VTY_ACL in						
11	ACL specified for VTY access is created	Critical	False	False	Error 🗶		
Fix r Cann mana ip ac rema	ment: ot be fixed automatically! notice: ot be fixed automatically! If search is not successfaging devices with these commands: cess-list standard <acl name=""> irk Permiting managemnt device iit <ip address=""> <wildcard mask=""></wildcard></ip></acl>	ful create ACL	., which permit:	s only needed (end stations for		
12	Log login to device on failure	High	False	False	Successful 🗸		
	t configuration setting found in: on-failure log						
13	Log login to device on success	Medium	False	False	Successful 🗸		
	t configuration setting found in: on-success log						
14	Login quiet mode	Medium	False	False	Successful 🗸		
_	t configuration setting found in: quiet-mode access-class IPV4_VTY_ACL						
15	ACL exists for specified login quiet mode	e Medium	False	False	Error 🗶		
Comment: Cannot be fixed automatically! Fix notice: Cannot be fixed automatically! If search is not successful create ACL, which permits only needed end stations for							
mana ip ac rema	aging devices with these commands: cess-list standard <acl name=""> irk Permiting managemnt device iit <ip address=""> <wildcard mask=""></wildcard></ip></acl>						
16	One user change config at time	High	False	False	Successful 🗸		
	t configuration setting found in: guration mode exclusive						
17	Legal banner MOTD	Low	False	False	Successful 🗸		
	t configuration setting found in: er motd ^C Unauthorized access will be prosecute	ed!! ^C					
18	Legal banner exec	Low	False	False	Successful 🗸		

Right configuration setting found in: banner exec ^C * IOSv is strictly limited to use for evaluation, demonstration and IOS * * education. IOSv is provided as-is and is not supported by Cisco's * * Technical Advisory Center. Any use or disclosure, in whole or in part, * * of the IOSv Software or Documentation to any third party for any * * purposes is expressly prohibited except as otherwise authorized by * * Cisco in writing. * Legal banner login False False Low Successful < Right configuration setting found in: banner login ^C ********************** * IOSv is strictly limited to use for evaluation, demonstration and IOS * * education. IOSv is provided as-is and is not supported by Cisco's * * Technical Advisory Center. Any use or disclosure, in whole or in part, * * of the IOSv Software or Documentation to any third party for any * * purposes is expressly prohibited except as otherwise authorized by * * Cisco in writing. * ****************************** 20 Session timeout Medium False False Successful 🗸 Right configuration setting found in: line con 0 session-timeout 30 line aux 0 session-timeout 30 line vty 0 4 session-timeout 30 21 AUX exec timeout one second High **False False** Successful < Right configuration setting found in: line aux 0 exec-timeout 0 1 Not relevant Restrict login to device - IPv6 ACL Critical True **False** Skipped, required function ipv6 not configured on device. Everything is OK. Not relevant ACL IPv6 specified for VTY access is 23 **False** Critical True created Comment: Skipped, required function ipv6 not configured on device. Everything is OK. 24 Login DOS block for High **False** Successful < Right configuration setting found in: login block-for 120 attempts 3 within 30

SSH

No.	Name	Severity	Skipped	Cannot determine search/fix	
1	SSH enable on management connection	Critical	False	False	Successful 🗸
line v	t configuration setting found in: ty 0 4 port input ssh				
2	SSH version 2	Critical	False	False	Successful 🗸
_	t configuration setting found in: n version 2				
3	SSH timeout	Medium	False	False	Successful 🗸

_	at configuration setting found in: h time-out 30				
4	SSH max 3 retries	Medium	False	False	Successful 🗸
5	SSH source interface	High	False	False	Successful 🗸
_	nt configuration setting found in: h source-interface Loopback0				
6	SSH not default port	High	False	False	Successful 🗸
_	at configuration setting found in: h port 2223 rotary 1				
7	SSH not default port applied	High	False	False	Successful 🗸
_	at configuration setting found in: wty 0 4 $_{ m y}$ 1				

Device identification

No.	Name	Severity	Skipped	Cannot determine search/fix	
1	Hostname set	Low	False	False	Successful 🗸
Cann	ment: ot be fixed automatically! t configuration setting found in: ame Dist_SW2				
2	Domain name set	Low	False	False	Successful 🗸
_	t configuration setting found in: main-name thesis-test.cz				
3	All interfaces have description	Low	False	False	Error 🗶

Comment:

Cannot be fixed automatically!

Right configuration setting found in:

interface GigabitEthernet0/0 description uplink

Found port(s) with error:

Loopback0

GigabitEthernet0/1

GigabitEthernet0/2

GigabitEthernet0/3

GigabitEthernet1/0

GigabitEthernet1/1

GigabitEthernet1/2

GigabitEthernet1/3

GigabitEthernet2/0

GigabitEthernet2/1

GigabitEthernet2/2

GigabitEthernet2/3

GigabitEthernet3/0 GigabitEthernet3/1

GigabitEthernet3/2

GigabitEthernet3/3

Vlan20

Vlan30

Fix notice:

Set interface descrtiption with command: interface <interface name>

description <description of interface>

Fix ignore comment:

Fixing commands suppressed due to manual need of manual chenage and name determination.

SNMP

No.	Name	Severity	Skipped	Cannot determine search/fix	
1	SNMP v2 write disabled	Critical	False	False	Successful 🗸
2	SNMP v2 read without ACL disabled	Critical	False	False	Successful 🗸
3	SNMP v2 read with ACL disabled	Critical	False	False	Successful 🗸
4	SNMP v1 trap host disabled	Critical	False	False	Successful 🗸
5	SNMP v2 trap host disabled	Critical	False	False	Successful 🗸
6	SNMP v3 read [authnopriv noauth authpriv without ACL] or write disabled	Critical	False	False	Error X
	configuration setting found in: -server group SNMPv3USER v3 priv				
7	SNMP v3 read authpriv with ACL enabled	Critical	False	False	Successful 🗸
_	t configuration setting found in: -server group SNMP_V3_GRP v3 priv read READ_VI	EW access Si	NMP_V3		
8	SNMP v3 read authpriv with IPv6 ACL enabled	Critical	True	False	Not relevant ✓
	ment: ed, required function ipv6 not configured on devic	e. Everything	is OK.		
9	SNMP user v1 v2c or v3 [noauth authnopriv no sha no aes without ACL] disabled	Critical	False	False	Successful 🗸
10	SNMP trap source interface	High	False	False	Successful 🗸
	t configuration setting found in: server trap-source Loopback0				
11	SNMP server location	High	False	False	Successful 🗸
	t configuration setting found in: -server location GNS3LAB				
12	SNMP v3 traps priv	Medium	False	False	Successful 🗸
_	t configuration setting found in: -server host 192.168.60.11 version 3 priv SNMPv3	USER			
13	SNMP traps v3 read [authnopriv noauth] or v1 v2 disabled	Critical	False	False	Successful 🗸
14	SNMP traps enabled	Medium	False	False	Successful 🗸
_	t configuration setting found in: server enable traps snmp authentication linkdowr	n linkup colds	tart warmstart		
15	ACL is created for SNMPv3	Critical	False	False	Successful 🗸
_	t configuration setting found in: cess-list standard SNMP_V3				
16	ACL IPv6 is created for SNMPv3	Critical	True	False	Not relevant ✓
	ment: ed, required function ipv6 not configured on devic	e. Everything	is OK.		
17	SNMP interface index persist enabled globally	High	False	False	Successful 🗸
_	t configuration setting found in: ifmib ifindex persist				
18	SNMP interface index persist enabled per interface	High	False	False	Matched by equivalent ✓
	ment: le was marked as matched by equivalent by modu	ile 05_20_snn	np_ifindex_pers	sist_globally.ya	ml

Syslog

No.	Name	Severity	Skipped	Cannot determine search/fix	
1	Syslog server enabled	High	False	False	Successful 🗸
	t configuration setting found in: ng host 192.168.60.11				
2	Syslog server IPv6 enabled	High	True	False	Not relevant ✓
	ment: bed, required function ipv6 not configured on devic	e. Everything	is OK.		
3	Syslog source interface	Medium	False	False	Successful 🗸
	t configuration setting found in: ng source-interface Loopback0				
4	Syslog format	Medium	False	False	Successful 🗸
	t configuration setting found in: ce timestamps log datetime msec				
5	Syslog critical alerts to console	Medium	False	False	Successful 🗸
_	t configuration setting found in: ng console critical				
6	Syslog send informational traps	High	False	False	Successful 🗸
7	Syslog buffer set with severity	High	False	False	Successful 🗸
	t configuration setting found in: ng buffered 40960 informational				
8	Syslog local backup	High	False	False	Successful 🗸
	t configuration setting found in: ng persistent url flash:/				
9	Syslog sequence numbers added	Medium	False	False	Successful 🗸
_	t configuration setting found in: ce sequence-numbers				

NTP

No.	Name	Severity	Skipped	Cannot determine search/fix	
1	NTP server set	High	False	False	Successful 🗸
	t configuration setting found in: erver 192.168.60.11				
2	NTP source interface	Medium	False	False	Successful 🗸
	t configuration setting found in: ource Loopback0				
3	NTP authentication key	High	False	False	Successful 🗸
	t configuration setting found in: uthentication-key 1 md5 030A4F1B360E325F590D	485744 7			
4	NTP trusted key	High	False	False	Successful 🗸
_	t configuration setting found in: rusted-key 1				
5	NTP authenticate	High	False	False	Successful 🗸
_	t configuration setting found in: uthenticate				

High load

No.	Name	Severity	Skipped	Cannot determine search/fix	
1	SNMP traps for CPU load	Medium	False	False	Error 🗶
	erated fix: o-server enable traps cpu threshold				
2	Threshold for CPU load	Medium	False	False	Successful 🗸
	t configuration setting found in: ess cpu threshold type total rising 70 interval 5				
3	Statistics entry for CPU load	Low	False	False	Successful 🗸
	t configuration setting found in: ess cpu statistics limit entry-percentage 70				
4	Reserve memory for critical notification	Medium	False	False	Successful 🗸
	t configuration setting found in: ory reserve critical 1000				
5	Minimum CPU memory notification	Medium	False	False	Successful 🗸
_	t configuration setting found in: ory free low-watermark processor 2000				
6	Minimum IO memory notification	Medium	False	False	Successful 🗸
_	t configuration setting found in: ory free low-watermark IO 2000				

Spanning tree

No.	Name	Severity	Skipped	Cannot determine search/fix	Status
1	Portfast globally enabled	High	False	False	Successful 🗸
_	t configuration setting found in: ning-tree portfast edge default				
2	Portfast enabled on access interface	High	False	False	Matched by equivalent ✓
	nent: le was marked as matched by equivalent by modu	le 09_01_stp_	_portfast_defau	lt.yaml	
3	BPDU Guard globally enabled	Critical	False	False	Successful 🗸
	t configuration setting found in: ning-tree portfast edge bpduguard default				
4	BPDU Guard enabled on access interface	High	False	False	Matched by equivalent ✓
	nent: le was marked as matched by equivalent by modu	le 09_03_stp_	_bpdu_guard.ya	aml	
5	BPDU Filter globally disabled	Critical	False	False	Successful 🗸
6	BPDU Filter disabled on access interface	High	False	False	Not relevant ✓
Modu	nent: le 09_06_stp_bpdu_filter_interface.yaml configured nodule has not run yet with specified cmd_match_s				
7	Loop Guard globally enabled	Critical	False	False	Successful 🗸
	t configuration setting found in: ning-tree loopguard default				
8	Loop Guard enabled on access interface	High	False	False	Matched by equivalent ✔
	nent: le was marked as matched by equivalent by modu	le 09_07_stp_	_loop_guard.ya	ml	

No.	Name	Severity	Skipped	Cannot determine search/fix	
L	Default Vlan not used	Critical	False	False	Error X
	ment: ot be fixed automatically! Cannot automatically o	determine VLAN	N assignment t	to port.	
nterf	t configuration setting found in: ace GigabitEthernet2/0 nport access vlan 20				
Gigak Gigak Gigak Gigak Gigak Gigak Gigak Gigak Gigak	d port(s) with error: bitEthernet0/2 bitEthernet1/1 bitEthernet1/2 bitEthernet1/3 bitEthernet2/1 bitEthernet2/2 bitEthernet2/3 bitEthernet3/0 bitEthernet3/1 bitEthernet3/2 bitEthernet3/2 bitEthernet3/3 otice: nate ports with default VIan by command with VIan	an ID different	than 1		
witc	ace <interface name=""> nport mode access nport access vlan <vlan id=""></vlan></interface>				
2	Management VLAN + SVI set and different than 1	Medium	False	False	Successful 🗸
Right nterf p add no ip no ip no ip	t configuration setting found in: ace Vlan20 dress 192.168.20.2 255.255.255.0 redirects unreachables proxy-arp by 20 ip 192.168.20.1 ifindex persist				
3	Management VLAN gateway	Medium	False	False	Error X
Cann Fix n Defau	ment: ot be fixed automatically! Cannot automatically s otice: alt gateway can be set with command: fault-gateway <ip address=""></ip>	set default gate	eway among d	ifferent switche	5.
1	Native vlan different than 1	Critical	False	False	Successful 🗸
nterf witc nterf	t configuration setting found in: ace GigabitEthernet0/1 nport trunk native vlan 100 ace GigabitEthernet1/0 nport trunk native vlan 100				
5	Specified allowed VLAN on trunk	Critical	False	False	Successful 🗸
nterf switc nterf	t configuration setting found in: ace GigabitEthernet0/1 nport trunk allowed vlan 20,30 ace GigabitEthernet1/0 nport trunk allowed vlan 20,30				
5	Switchport mode dynamic disabled	Critical	False	False	Successful 🗸
7	Switchport implicit dynamic disabled	Critical	False	False	Successful 🗸

Right configuration setting found in:

interface GigabitEthernet0/2 switchport mode access interface GigabitEthernet0/3 switchport mode access interface GigabitEthernet1/1 switchport mode access interface GigabitEthernet1/2 switchport mode access interface GigabitEthernet1/3 switchport mode access interface GigabitEthernet2/0 switchport mode access interface GigabitEthernet2/1 switchport mode access interface GigabitEthernet2/2 switchport mode access interface GigabitEthernet2/3 switchport mode access interface GigabitEthernet3/0 switchport mode access interface GigabitEthernet3/1 switchport mode access interface GigabitEthernet3/2 switchport mode access interface GigabitEthernet3/3

switchport mode access

8 DTP disabled Critical False False Successful ✔

Right configuration setting found in:

interface GigabitEthernet0/1 switchport nonegotiate interface GigabitEthernet0/2 switchport nonegotiate interface GigabitEthernet0/3 switchport nonegotiate interface GigabitEthernet1/0 switchport nonegotiate interface GigabitEthernet1/1 switchport nonegotiate interface GigabitEthernet1/2 switchport nonegotiate interface GigabitEthernet1/3 switchport nonegotiate interface GigabitEthernet2/0 switchport nonegotiate interface GigabitEthernet2/1 switchport nonegotiate interface GigabitEthernet2/2 switchport nonegotiate interface GigabitEthernet2/3 switchport nonegotiate interface GigabitEthernet3/0 switchport nonegotiate interface GigabitEthernet3/1 switchport nonegotiate interface GigabitEthernet3/2 switchport nonegotiate interface GigabitEthernet3/3 switchport nonegotiate

VTP disabled Critical False False Successful ✓

Network Mapping

Name	Severity	Skipped	Cannot determine search/fix			
CDP globally disabled	Critical	False	False	Successful 🗸		
Right configuration setting found in: no cdp run						
CDP disabled on interface(s)	Critical	False	False	Matched by equivalent ✓		
Comment: Module was marked as matched by equivalent by module 11_01_cdp_run_disabled.yaml						
	CDP globally disabled configuration setting found in: p run CDP disabled on interface(s) ment:	CDP globally disabled Critical configuration setting found in: p run CDP disabled on interface(s) Critical ment:	CDP globally disabled Critical False configuration setting found in: p run CDP disabled on interface(s) Critical False ment:	Name Severity Skipped determine search/fix CDP globally disabled Critical False False configuration setting found in: prun CDP disabled on interface(s) Critical False False rement:		

3	LLDP globally disabled	Critical	False	False	Successful ✓ Not relevant			
4	LLDP receive disabled on interface(s)	Critical	False	False	✓			
Comment: Module 11_04_lldp_receive.yaml configured to run after 11_03_lldp_run_disabled.yaml with status error but that module has not run yet with specified cmd_match_status, 11_04_lldp_receive.yaml will not run								
5	LLDP transmit disabled on interface(s)	Critical	False	False	Not relevant ✓			
Modu	ment: lle 11_05_lldp_transmit.yaml configured to run afte lle has not run yet with specified cmd_match_statu				s error but that			
6	Proxy ARP disabled on interface(s)	Critical	False	False	Successful 🗸			
interf no ip interf no ip interf	t configuration setting found in: face GigabitEthernet0/0 proxy-arp face Vlan20 proxy-arp face Vlan30 proxy-arp							
7	ICMP Unreachable disabled on interface(s)	High	False	False	Successful 🗸			
interf no ip interf no ip interf	t configuration setting found in: face GigabitEthernet0/0 unreachables face Vlan20 unreachables face Vlan30 unreachables face Vlan30 unreachables							
8	ICMPv6 Unreachable disabled on interface(s)	High	True	False	Not relevant ✓			
	ment:							
Skipp 9	ed, required function ipv6 not configured on devic ICMP Mask Reply disabled on	e. Everything High	is OK. False	False	Successful 🗸			
10	interface(s) Directed broadcast disabled on	Critical	False	False	Successful 🗸			
11	interface(s) ICMP Redirects disabled on interface(s)	High	False	False	Successful 🗸			
interf no ip interf no ip interf	t configuration setting found in: face GigabitEthernet0/0 redirects face Vlan20 redirects face Vlan30 redirects							
ip acc rema deny rema deny perm rema	t configuration setting found in: cess-list extended DENY_NETWORK_MAP rk deny ping all nodes icmp any host 224.0.0.1 echo log-input rk deny host query igmp any any 1 log-input it ip any any rk deny ping all nodes rk deny host query	Medium	False	False	Successful 🗸			
13	IGMP Host Query disabled in ACL	Medium	False	False	Successful 🗸			
ip acc rema deny rema deny perm rema	t configuration setting found in: cess-list extended DENY_NETWORK_MAP rk deny ping all nodes icmp any host 224.0.0.1 echo log-input rk deny host query igmp any any 1 log-input it ip any any rk deny ping all nodes rk deny host query							

14	ICMPv6 ff02::1 ping disabled in ACL	Medium	True	False	Not relevant ✓				
	Comment: Skipped, required function ipv6 not configured on device. Everything is OK.								
15	MLD Host Query disabled in ACL	Medium	True	False	Not relevant ✓				
	ment: ped, required function ipv6 not configured on devi	ce. Everything	g is OK.						
16	ACL against IPv4 network monitoring applied on interface(s)	Medium	False	False	Successful 🗸				
inter ip ac	cess-group DENY_NETWORK_MAP in face GigabitEthernet1/2 cess-group DENY_NETWORK_MAP in face GigabitEthernet1/3 cess-group DENY_NETWORK_MAP in face GigabitEthernet1/1 cess-group DENY_NETWORK_MAP in face GigabitEthernet1/2 cess-group DENY_NETWORK_MAP in face GigabitEthernet1/3 cess-group DENY_NETWORK_MAP in face GigabitEthernet2/0 cess-group DENY_NETWORK_MAP in face GigabitEthernet2/1 cess-group DENY_NETWORK_MAP in face GigabitEthernet2/2 cess-group DENY_NETWORK_MAP in face GigabitEthernet2/3 cess-group DENY_NETWORK_MAP in face GigabitEthernet2/3 cess-group DENY_NETWORK_MAP in face GigabitEthernet3/0 cess-group DENY_NETWORK_MAP in face GigabitEthernet3/1 cess-group DENY_NETWORK_MAP in face GigabitEthernet3/2 cess-group DENY_NETWORK_MAP in face GigabitEthernet3/2 cess-group DENY_NETWORK_MAP in face GigabitEthernet3/3				Not relevant				
17	applied on interface(s)	Medium	True	False	✓				
	ment: ped, required function ipv6 not configured on device	ce. Everything	g is OK.						

Routing

No.	Name	Severity	Skipped	Cannot determine search/fix			
1	OSPF IPv4 Router ID	Medium	False	False	Successful 🗸		
route	c configuration setting found in: r ospf 1 r-id 1.1.1.1						
2	OSPF IPv6 Router ID	Medium	True	False	Not relevant ✓		
	nent: ed, required function ospf ipv6 not configured on c	device. Everyt	thing is OK.				
3	OSPFv3 Address Family General Router ID	Medium	True	False	Not relevant ✓		
	nent: ed, required function ospfv3 not configured on dev	vice. Everythi	ng is OK.				
4	OSPFv3 Address Family IPv4 Router ID	Medium	True	False	Not relevant ✓		
Comment: Skipped, required function ospfv3 not configured on device. Everything is OK.							

_			_		Not relevant			
5	OSPFv3 Address Family IPv6 Router ID	Medium	True	False	✓			
Comment: Skipped, required function ipv6 not configured on device. Everything is OK.								
6	EIGRP IPv4 Router ID	Medium	True	False	Not relevant ✓			
	ment: bed, required function eigrp ipv4 not configured on	device. Ever	ything is OK.					
7	EIGRP IPv6 Router ID	Medium	True	False	Not relevant			
					✓			
	ment: ed, required function eigrp ipv6 not configured on	device. Ever	ything is OK.					
8	EIGRP Named IPv4 Router ID	Medium	True	False	Not relevant			
	ment: ped, required function eigrp named not configured	on device. Ev	verything is OK.					
9	EIGRP Named IPv6 Router ID	Medium	True	False	Not relevant			
					•			
	ment: ped, required function ipv6 not configured on devic	e. Everything	ı is OK.					
10	BGP Router ID	Medium	True	False	Not relevant			
					•			
	ment: ed, required function bgp not configured on device	e. Everything	is OK.					
11	OSPF IPv4 Log adjacency changes	Medium	False	False	Successful 🗸			
12	OSPF IPv6 Log adjacency changes	Medium	True	False	Not relevant ✓			
Com	ment:							
	oed, required function ospf ipv6 not configured on o	device. Every	thing is OK.					
13	OSPFv3 Address Family IPv6 Log adjacency changes	Medium	True	False	Not relevant ✓			
Com	ment:							
	ped, required function ipv6 not configured on devic	e. Everything	j is OK.					
14	OSPFv3 Address Family IPv4 Log adjacency changes	Medium	True	False	Not relevant ✓			
Com	ment:							
	ped, required function ospfv3 not configured on de	vice. Everyth	ing is OK.					
15	OSPFv3 Address Family IPv6 Log adjacency changes	Medium	True	False	Not relevant ✓			
Com	ment:							
	ned, required function ipv6 not configured on devic	e. Everything	j is OK.					
16	EIGRP IPv4 Log neighbor changes	Medium	True	False	Not relevant ✓			
Com								
	ment: ped, required function eigrp ipv4 not configured on	device. Ever	ything is OK.					
17	EIGRP IPv6 Log neighbor changes	Medium	True	False	Not relevant ✓			
	ment: ped, required function eigrp ipv6 not configured on	device. Ever	ythina is OK.					
18	EIGRP Named IPv4 Log neighbor	Medium	True	False	Not relevant			
10	changes	Alcalaili	TIGO	· disc	✓			
	ment: ped, required function eigrp named not configured	on device. Ev	verything is OV					
3Kipt	EIGRP Named IPv6 Log neighbor	Medium	True	False	Not relevant			
13	changes	A COLUMN	Truc	Laise	✓			

Comment: Skipped, required function ipv6 not configured on device. Everything is OK.										
20	BGP Log neighbor changes	Medium	True	False	Not relevant ✓					
	Comment: Skipped, required function bgp not configured on device. Everything is OK.									
21	RIP auto summary disabled	High	True	False	Not relevant ✓					
	ment: ped, required function rip not configured on device	. Everything i	s OK.							
22	EIGRP IPv4 Auto summary disabled	High	True	False	Not relevant ✓					
	ment: ped, required function eigrp ipv4 not configured on	device. Ever	ything is OK.							
23	EIGRP IPv6 Auto summary disabled	High	True	False	Not relevant ✓					
	ment: ped, required function eigrp ipv6 not configured on	device. Ever	ything is OK.							
24	EIGRP Named IPv4 Auto summary disabled	High	True	False	Not relevant ✓					
	ment: ped, required function eigrp named not configured	on device. Ev	verything is OK							
25	EIGRP Named IPv6 Auto summary disabled	High	True	False	Not relevant ✓					
	ment: ped, required function ipv6 not configured on devic	e. Everything	ą is OK.							
26	BGP Auto summary disabled	High	True	False	Not relevant ✓					
	ment: ped, required function bgp not configured on device	e. Everything	is OK.							
27	BGP Multihop disabled or TTL security used	High	True	False	Not relevant ✓					
	ment: ped, required function bgp not configured on device	e Everything	is OK							
28	IP Source routing (IP Options) disabled	Critical	False	False	Successful 🗸					

Filtering

No.	Name	Severity	Skipped	Cannot determine search/fix				
1	IP Options disabled	Critical	False	False	Successful 🗸			
Right configuration setting found in: ip options drop								
2	ACL filter IPv6 unknown extended header	Critical	True	False	Not relevant ✓			
	ment: ed, required function ipv6 not configured on device	e. Everything	is OK.					
3	ACL filter IPv6 unknown extended header applied on ACCESS interface	Critical	True	False	Not relevant ✓			
	Comment: Skipped, required function ipv6 not configured on device. Everything is OK.							

First Hop Security

No.	Name	Severity	Skipped	Cannot determine search/fix	
1	Port security enabled	Critical	False	False	Successful 🗸
interfi switch interf	configuration setting found in: ace GigabitEthernet0/2 apport port-security ace GigabitEthernet1/3 apport port-security ace GigabitEthernet1/1 apport port-security ace GigabitEthernet1/2 ace GigabitEthernet1/3 apport port-security ace GigabitEthernet2/0 apport port-security ace GigabitEthernet2/1 apport port-security ace GigabitEthernet2/1 apport port-security ace GigabitEthernet2/2 apport port-security ace GigabitEthernet2/3 apport port-security ace GigabitEthernet3/1 apport port-security ace GigabitEthernet3/1 apport port-security ace GigabitEthernet3/2 apport port-security ace GigabitEthernet3/2 apport port-security ace GigabitEthernet3/3 apport port-security ace GigabitEthernet3/3 apport port-security ace GigabitEthernet3/3 apport port-security				
2	Port security maximum 1 allowed MAC on port	Critical	False	False	Successful 🗸
3	Port security violation shutdown	Critical	False	False	Successful 🗸
4	802.1x globally enabled	High	False	False	Successful 🗸
_	configuration setting found in: system-auth-control				
5	AAA authentication 802.1x	High	False	False	Successful 🗸
	t configuration setting found in: uthentication dot1x default group RADIUS_SERVER	₹			
6	802.1x enabled on interfaces	High	False	False	Successful 🗸
interfiacces inter	c configuration setting found in: ace GigabitEthernet0/2 s-session port-control auto ace GigabitEthernet1/3 s-session port-control auto ace GigabitEthernet1/1 s-session port-control auto ace GigabitEthernet1/2 s-session port-control auto ace GigabitEthernet1/3 s-session port-control auto ace GigabitEthernet2/0 s-session port-control auto ace GigabitEthernet2/1 s-session port-control auto ace GigabitEthernet2/2 s-session port-control auto ace GigabitEthernet2/3 s-session port-control auto ace GigabitEthernet3/0 s-session port-control auto ace GigabitEthernet3/1 s-session port-control auto ace GigabitEthernet3/2 s-session port-control auto ace GigabitEthernet3/2 s-session port-control auto ace GigabitEthernet3/2 s-session port-control auto				
acces 7	s-session port-control auto 802.1x enabled on interfaces	High	False	False	Successful 🗸
8	802.1x port set authenticator	High	False	False	Successful •
		_			

Right configuration setting found in: interface GigabitEthernet0/2 dot1x pae authenticator interface GigabitEthernet0/3 dot1x pae authenticator interface GigabitEthernet1/1 dot1x pae authenticator interface GigabitEthernet1/2 dot1x pae authenticator interface GigabitEthernet1/3 dot1x pae authenticator interface GigabitEthernet2/0 dot1x pae authenticator interface GigabitEthernet2/1 dot1x pae authenticator interface GigabitEthernet2/2 dot1x pae authenticator interface GigabitEthernet2/3 dot1x pae authenticator interface GigabitEthernet3/0 dot1x pae authenticator interface GigabitEthernet3/1 dot1x pae authenticator interface GigabitEthernet3/2 dot1x pae authenticator interface GigabitEthernet3/3 dot1x pae authenticator Critical DHCP Snooping globally enabled **False** False Successful < Right configuration setting found in: ip dhcp snooping DHCP Snooping enabled for VLAN(s) Critical **False False** Successful < Right configuration setting found in: ip dhcp snooping vlan 10,20,30,40,50,60 11 DHCP Snooping trust interface(s) set Critical False False Successful < Right configuration setting found in: interface GigabitEthernet0/1 ip dhcp snooping trust interface GigabitEthernet1/0 ip dhcp snooping trust DHCP Snooping rate limit fo ACCESS 12 High False False Successful < interface(s) set Right configuration setting found in: interface GigabitEthernet0/2 ip dhcp snooping limit rate 100 interface GigabitEthernet0/3 ip dhcp snooping limit rate 100 interface GigabitEthernet1/1 ip dhcp snooping limit rate 100 interface GigabitEthernet1/2 ip dhcp snooping limit rate 100 interface GigabitEthernet1/3 ip dhcp snooping limit rate 100 interface GigabitEthernet2/0 ip dhcp snooping limit rate 100 interface GigabitEthernet2/1 ip dhcp snooping limit rate 100 interface GigabitEthernet2/2 ip dhcp snooping limit rate 100 interface GigabitEthernet2/3 ip dhcp snooping limit rate 100 interface GigabitEthernet3/0 ip dhcp snooping limit rate 100 interface GigabitEthernet3/1 ip dhcp snooping limit rate 100 interface GigabitEthernet3/2 ip dhcp snooping limit rate 100 interface GigabitEthernet3/3 ip dhcp snooping limit rate 100 Not relevant Critical False IPv6 Unicast Routing enabled True Skipped, required function ipv6 not configured on device. Everything is OK.

14	IPv6 RA Guard host policy defined	Critical	True	False	Not relevant ✓
	ment: ped, required function ipv6 not configured on device	ce. Everything	g is OK.		
15	IPv6 RA Guard on ACCESS interface(s)	Critical	True	False	Not relevant ✓
	ment: ped, required function ipv6 not configured on device	ce. Everything	g is OK.		
16	DHCPv6 Server policy	Critical	True	False	Not relevant ✓
	ment: ped, required function ipv6 not configured on device	ce. Everything	g is OK.		
17	DHCPv6 Client policy	Critical	True	False	Not relevant ✓
	ment: ped, required function ipv6 not configured on device	ce. Everything	g is OK.		
18	DHCPv6 Guard server interface(s) set	Critical	True	False	Not relevant ✓
	ment: ped, required function ipv6 not configured on device	ce. Everything	g is OK.		
19	DHCPv6 Guard client interface(s) set	Critical	True	False	Not relevant ✓
	ment: ped, required function ipv6 not configured on device Dynamic ARP Inspection enabled for VLAN(s)	ce. Everything Critical	g is OK. False	False	Successful 🗸
	t configuration setting found in: p inspection vlan 10,20,30,40,50,60				
21	Dynamic ARP Inspection validate by SRC,DST MAC and IP	Critical	False	False	Successful 🗸
	t configuration setting found in: p inspection validate src-mac dst-mac ip				
22	Dynamic ARP trusted interface(s) set	Critical	False	False	Successful 🗸
inter ip ar inter	t configuration setting found in: face GigabitEthernet0/1 p inspection trust face GigabitEthernet1/0 p inspection trust				
23	IPv6 ND inspection policy	Critical	True	False	Not relevant ✓
	ment: ped, required function ipv6 not configured on device.	ce. Everything	g is OK.		
24	IPv6 ND inspection on interface(s) set	Critical	True	False	Not relevant ✓
	ment: ped, required function ipv6 not configured on device	ce. Everything	g is OK.		
25 Com	IPv6 Snooping policy	Critical	True	False	Not relevant ✓
	ned, required function ipv6 not configured on device	ce. Everything	g is OK.		Nah nalawa 1
26	IPv6 Snooping on interface(s) set	Critical	True	False	Not relevant ✓
	ment: ped, required function ipv6 not configured on device	ce. Everything	g is OK.		
27	IP Source Guard on interface(s) set	Critical	False	False	Successful 🗸

Right configuration setting found in:

interface GigabitEthernet0/2 ip verify source port-security interface GigabitEthernet0/3 ip verify source port-security interface GigabitEthernet1/1 ip verify source port-security interface GigabitEthernet1/2 ip verify source port-security interface GigabitEthernet1/3 ip verify source port-security interface GigabitEthernet2/0 ip verify source port-security interface GigabitEthernet2/1 ip verify source port-security interface GigabitEthernet2/2 ip verify source port-security interface GigabitEthernet2/3 ip verify source port-security interface GigabitEthernet3/0 ip verify source port-security interface GigabitEthernet3/1 ip verify source port-security interface GigabitEthernet3/2 ip verify source port-security interface GigabitEthernet3/3 ip verify source port-security

28	IPv6 Source Guard policy	Critical	True	False	Not relevant ✓				
	Comment: Skipped, required function ipv6 not configured on device. Everything is OK.								
29	IPv6 Source Guard on interface(s) set	Critical	True	False	Not relevant ✓				
	Comment: Skipped, required function ipv6 not configured on device. Everything is OK.								
30	IPv6 Destination Guard policy	Critical	True	False	Not relevant ✓				
	ment: bed, required function ipv6 not configured on devic	ce. Everything	g is OK.						
31	IPv6 Destination Guard on interface(s) set	Critical	True	False	Not relevant ✓				
	Comment: Skipped, required function ipv6 not configured on device. Everything is OK.								

Other

No.	Name	Severity	Skipped	Cannot determine search/fix	
1	Servis PAD disabled (Packet assembler disassembler)	High	False	False	Successful 🗸
Right configuration setting found in: no service pad					
2	BOOTP server disabled	High	False	False	Successful 🗸
_	t configuration setting found in: bootp server				
3	Finger protocol disabled	High	False	False	Successful 🗸
4	HTTP server disabled	High	False	False	Error 🗶
Error configuration setting found in: ip http server					

5	HTTPS server disabled	High	False	False	Successful 🗸			
	TCP small server disabled	High	False	False	Successful 🗸			
7	UDP small server disabled	High	False	False	Successful 🗸			
8	IP domain lookup disabled	High	False	False	Successful 🗸			
_	t configuration setting found in: domain-lookup							
9	Gratuitous ARPs generation disabled	High	False	False	Successful 🗸			
_	t configuration setting found in: gratuitous-arps							
10	Gratuitous ARPs reject enabled	High	False	False	Successful 🗸			
_	t configuration setting found in: gratuitous none							
11	Netflow is disabled	Notice	False	False	Successful 🗸			
Fix ignore comment: By default fix is ignored due to disablement of traffic monitoring. Consider whether port mirroring is neccesary for monitoring								
12	Netflow version 9 used	Medium	False	False	Not relevant ✓			
Comment: Module 15_14_netflow_version_9.yaml configured to run after 15_13_netflow.yaml with status error but that module has not run yet with specified cmd_match_status, 15_14_netflow_version_9.yaml will not run								
13	Netflow traffic analyze disabled on interface(s)	Notice	False	False	Not relevant ✓			
not ru Fix ig By de	le 15_15_netflow_interface.yaml configured to run un yet with specified cmd_match_status, 15_15_net gnore comment: Ifault fix is ignored due to disablement of traffic motoring	tflow_interfac	e.yaml will not	run				
14	Port mirroring disabled on interface(s)	Notice	False	False	Successful 🗸			
-			sider whether	port mirroring	is neccesary for			
15	Set always "UP" Loopback interface with IP address	Medium	False	False	Successful 🗸			
interfaip add no ip no ip no ip no ip no ip	t configuration setting found in: ace Loopback0 dress 1.1.1.1 255.255.255.0 redirects unreachables proxy-arp /6 unreachables ifindex persist							
16	Notification on memory IO leak/overflow	Medium	False	False	Successful 🗸			
_	t configuration setting found in: otion memory ignore overflow io							
17	Notification on memory CPU leak/overflow	Medium	False	False	Successful 🗸			
	t configuration setting found in: otion memory ignore overflow processor							
excep	Network boot disabled	Medium	False	False	Successful 🗸			
	Network boot disabled							
18	Network config load disabled	Medium	False	False	Successful 🗸			
18 19		Medium Medium	False False	False False	Successful ✓ Successful ✓			
18 19 20 Right	Network config load disabled							

22	Protection of configuration deletion	High	False	False	Error 🗶			
Generated fix: secure boot config secure boot-config Fix notice: Just one of fixing command is applicable to device. There are more because of different syntax among IOS versions.								
23		Medium	False	False				
Right archi log co loggi notif hidel path maxi time mem	onfig ng enable y syslog contenttype plaintext	Medidiff	raise	raise	Successful ✓			
24	Terminate hanged inbound TCP connection to device	Medium	False	False	Successful 🗸			
	et configuration setting found in: ce tcp-keepalives-in							
25	Terminate hanged outbound TCP connection to device	Medium	False	False	Successful 🗸			
Right configuration setting found in: service tcp-keepalives-out								
26	Encrypt all saved passwords in configuration	Critical	False	False	Successful 🗸			
Right configuration setting found in: no service password-encryption								